

# INTERNATIONAL SEARCH REPORT

International Application No  
 PCT/GB2004/004256

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 E21B43/117

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 235 005 A (DELACOUR JACQUES) 15 February 1966 (1966-02-15) column 1, line 44 – column 4, line 14 -----	1-27
A	US 2003/037693 A1 (WENDT CLARENCE W ET AL) 27 February 2003 (2003-02-27) paragraph '0021! – paragraph '0027! -----	1-27
A	US 2002/112564 A1 (LEIDEL DAVID J ET AL) 22 August 2002 (2002-08-22) paragraph '0007! – paragraph '0010! paragraph '0020! – paragraph '0022! -----	1-27



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

18 February 2005

Date of mailing of the international search report

28/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel: (+31-70) 340-2040, Tx: 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Zimpfer, E

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004256

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 3235005	A	15-02-1966	BE CH CH DE GB NL NL	551007 A 331626 A 361232 A 1182999 B 839872 A 107034 C 210985 A		31-07-1958 31-03-1962 29-06-1960
US 2003037693	A1	27-02-2003	CA EP WO	2409281 A1 1317650 A2 0196807 A2		20-12-2001 11-06-2003 20-12-2001
US 2002112564	A1	22-08-2002	CA EP	2334552 A1 1134539 A1		07-08-2001 19-09-2001